
EPA Moderated Transaction System (EMTS)

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Office of Transportation and Air Quality
US Environmental Protection Agency



EPA Moderated Transaction System (EMTS)

- Is registration important for RFS2 and EMTS?
- What is EMTS?
- Why did EPA develop EMTS?
- What does EMTS do for me?
- What information do I need to submit to EMTS?
 - Generation of RINs
 - Selling RINs
 - Buying RINs
 - Separating RINs
 - Retiring RINs
 - EMTS Conversion Tool & Batch File Submissions
- What additional information is available?

Is registration important for RFS2 and EMTS?

Is proper registration necessary? Yes! Without an up-to-date registration, you may not be able to interact with EMTS properly or even interact at all!

- Make sure that your company is properly registered with OTAQReg: Fuels Programs Registration system accessed via CDX.
- Read the EMTS Transaction Instructions on how your EMTS capabilities may be affected based on your registration.
- Only those users with the “submitter” role in OTAQReg may perform transactions in EMTS.

OTAQReg: Fuels Programs Registration

Help

Company
Details

Associated
Facilities

Company / Entity Name

Name *

Test Company 1

Valid From (Start Date
MM/DD/YYYY) *

03/12/2010

Calendar

Valid To (End Date
MM/DD/YYYY)

Calendar

Company / Entity Location

Address 1 *

123 Test Lane

Address 2

City *

Washington

State *

District of Columbia

Zip *

20005

Country

Select

Responsible Corporate Officer (RCO) Info

OTAQReg: Fuels Programs Registration

Program Type (Select all that apply)

- Gasoline Diesel Renewable Fuel Standard

Business Activities (Select all that apply)

- | | | |
|---|---|---|
| <input type="checkbox"/> Refiner | <input type="checkbox"/> Biodiesel Producer | <input type="checkbox"/> Oxygenate Blender |
| <input checked="" type="checkbox"/> RIN Generator | <input type="checkbox"/> Pipeline/Pass-Through Terminal | <input type="checkbox"/> Truck Loading Terminal |
| <input type="checkbox"/> Non Renewable Fuels Importer | <input type="checkbox"/> Transmix | <input type="checkbox"/> Independent Lab |
| <input type="checkbox"/> RIN Owner | <input type="checkbox"/> Mobile Facility | <input type="checkbox"/> Renewable Diesel |
| <input type="checkbox"/> Renewable Fuels Exporter | <input type="checkbox"/> Small Refiner | <input type="checkbox"/> Small Blender |
| <input type="checkbox"/> Renewable Fuels Importer | | |

Company Foreign Bond

Foreign Bond?(Y/N) *

Yes No

[Review & Submit](#)

[Refresh](#)

[Main Menu](#)

OTAQReg: Fuels Programs Registration

Facility Details

Gas/Ethanol Facility Diesel/Biodiesel Facility

Facility Information

Facility Activities *

Refiner

Non Renewable Fuels Importer

Oxygenate Blender

RIN Generator

Process Codes

- Biogas Production (850)
- Cellulosic Production Process (280)
- Dry Mill, Biogas Fired (50% or less of DGS dried annually) (300)
- Dry Mill, Biogas Fired (CHP, 65% or less of DGS dried annually) (310)
- Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation) (320)
- Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation, Corn Oil Extraction) (330)
- Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation, Corn Oil Extraction, Membrane Separation) (340)
- Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation, Corn Oil Extraction, Membrane Separation, Raw Starch Hydrolysis) (350)
- Dry Mill, Biogas Fired (Corn Oil Extraction, 65% or less of DGS dried annually) (360)
- Dry Mill, Biogas Fired (Corn Oil Extraction, Membrane Separation) (370)
- Dry Mill, Biogas Fired (Corn Oil Extraction, Membrane Separation, Raw Starch Hydrolysis) (380)
- Dry Mill, Biogas Fired (Corn Oil Fractionation, 65% or less of DGS dried annually) (390)
- Dry Mill, Biogas Fired (Corn Oil Fractionation, Corn Oil Extraction) (400)
- Dry Mill, Biogas Fired (Corn Oil Fractionation, Corn Oil Extraction, Membrane Separation) (410)
- Dry Mill, Biogas Fired (Corn Oil Fractionation, Corn Oil Extraction, Membrane Separation, Raw Starch Hydrolysis) (420)
- Dry Mill, Biogas Fired (Membrane Separation, 65% or less of DGS dried annually) (430)
- Dry Mill, Biogas Fired (Membrane Separation, Raw Starch Hydrolysis) (440)
- Dry Mill, Biogas Fired (Raw Starch Hydrolysis, 65% or less of DGS dried annually) (450)
- Dry Mill, Biomass Fired (50% or less of DGS dried annually) (460)
- Dry Mill, Biomass Fired (CHP, 65% or less of DGS dried annually) (470)

OTAQReg: Fuels Programs Registration

Please read the information provided on the fuels programs registration webpage

<http://www.epa.gov/otaq/regs/fuels/fuelsregistration.htm>

For additional registration questions, please e-mail or call the EPA Fuels Programs Support line, EPAFuelsPrograms@epa.gov, 1-202-343-9755

What is EMTS?

- The EPA Moderated Transaction System is defined as a closed, moderated system for screening and trading Renewable Identification Numbers (RINs).
- EMTS has been developed for a number of reasons and has been widely accepted from many industry stakeholders.
- EMTS will screen and track all RINs generated under the Renewable Fuel Standard (RFS2) regulations starting July 1, 2010.

Why did EPA develop EMTS?

- There were many issues with the manual nature of handling 38 digit RINs.
- RFS2 requires added complexity with 4 Renewable Volume Obligations and 5 RIN types.
- EMTS provides industry with the ability to generate and trade RINs in a structured, uniform environment.
- Allows all regulated parties, who handle RINs, to receive immediate feedback.

What does EMTS do for me?

- EMTS allows RINs to be traded on a generic basis instead of handling 38 digit numbers.
- Allows users to provide unique references, such as PTD, Invoice, or BOL numbers. This feature assists personal tracking systems and could simplify annual attest engagements.
- EMTS will notify parties if a submission fails, a trade expires, a trade is pending, a trade has been denied, etc.
- EMTS' internal QA checks will help identify errors prior to submission.
- Allows users to identify common reporting issues and EPA to provide focused training.

How can I interact with EMTS?

Interaction Methods

There are multiple ways for a party to interact with EMTS

- EMTS Web Application
 - Wizard-like approach where EMTS will walk a user through every step to submit a transaction.
- Batch file submission
 - All transactional information provided in an XML file format.
 - EPA has developed an EMTS Conversion Tool (ECT) where a user can provide an Excel, CSV, TXT, file and the ECT will convert the file to a well formed XML file.
- File submission through the Exchange Network (Node to Node)
 - Machine to Machine
 - Allows users with internal transaction systems to directly send XML files to EMTS with very limited human interaction.

What information do I need to submit to EMTS?

All EMTS requirements can be found in 40 CFR §80.1452

All information related to:

- Generate RINs
- Sell RINs
- Buy RINs
- Separate RINs
- Retire RINs

What information do I need to submit to EMTS? - Generation

Generate RINs

- Fuel (D Code) of the renewable fuel volume
- Renewable fuel production process
- Production Date
- Fuel Type (e.g. Ethanol, Biodiesel, Non-ester Renewable Diesel)
- Batch Volume
- Denaturant Volume (Ethanol only)
- RIN Quantity
- Batch Number
- Feedstock volumes
- Renewable Biomass Affirmation (as applicable)
- Co-products, for Dry and Wet Distiller grains only

What information do I need to submit to EMTS? – Generation (cont...)

Report Fuel

* Fuel (D Code):

* Production Process:

* Production Date:

* Fuel Category:

Identify RINs

* Batch Volume:

Denaturant Volume:

Equivalence Value:

* Quantity of RINs:

Identify Production Source

Originating Source: **TEST PETROLEUM CORPORATION 1**

* Facility:

* Batch Number:

1 Repo
2 Repo
po

Grandfathered (Dry Mill, Natural Gas Fired) (10)
Grandfathered (Dry Mill, Biomass Fired) (110)
Grandfathered (Wet Mill, Natural Gas Fired) (120)
Grandfathered (Wet Mill, Coal Fired) (130)
Grandfathered (Wet Mill, Biomass Fired) (140)
Transesterification, Dedicated Renewable Biomass Facility (180)
Hydrotreating, Co-processing Facility (190)
Dry Mill, Natural Gas Fired (CHP, 65% or less of DGS dried annually) (20)
Hydrotreating, Dedicated Renewable Biomass Facility (200)
Cellulosic Production Process (280)
Fischer-Tropsch Process (290)
Dry Mill, Biogas Fired (50% or less of DGS dried annually) (300)
Dry Mill, Biogas Fired (CHP, 65% or less of DGS dried annually) (310)
Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation) (320)
Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation, Corn Oil Extraction) (330)
Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation, Corn Oil Extraction, Membrane Separation) (340)
Dry Mill, Biogas Fired (CHP, Corn Oil Fractionation, Corn Oil Extraction, Membrane Separation, Raw S) (350)
Dry Mill, Biogas Fired (Corn Oil Extraction, 65% or less of DGS dried annually) (360)
Dry Mill, Biogas Fired (Corn Oil Extraction, Membrane Separation) (370)

What information do I need to submit to EMTS? – Generation (cont...)

Identify RINs

* Batch Volume:	<input type="text"/>	Includes Denaturant Volume.
	(Gallons)	
Denaturant Volume:	<input type="text"/>	Ethanol and Cellulosic Ethanol Only.
	(Gallons)	
Equivalence Value:	<input type="text"/>	
* Quantity of RINs:	<input type="text"/>	Batch Volume multiplied by Equivalence Value.

Identify Production Source

Originating Source:	Test Refiner Company 1
* Facility:	<input type="text" value="-- Select --"/>
* Batch Number:	<input type="text"/>
Additional Information:	<input type="text"/>

* = Required Field

Report Feedstocks >>

What information do I need to submit to EMTS? – Generation (cont...)

Generate RINs - Report Feedstocks

Report one or more feedstocks used for the generation of the fuel.

Feedstock	Volume	Measure	Renewable Biomass	
No feedstocks have been reported.				

Report Feedstocks

* **Feedstock(Code):**

* **Volume:**

* **Unit of Measure:**

Does this feedstock mee

- Starch - Corn(10)
- Select --
- Starch - Corn(10)
- Sugarcane(120)
- Cellulose and Hemicellulose - Yard Waste(140)
- Waste Oils /Fats /Grease (160)
- Non-food grade corn oil(200)
- Soybean Oil and other virgin plant oils(210)
- Cellulose and Hemicellulose - Municipal Solid Waste(220)
- Algal Oil (230)
- Oil from Annual Covercrops(240)
- Cellulosic Biomass - Annual Cover Crops (250)
- Cellulosic Biomass - Forest Product Residues (260)
- Cellulosic Biomass - Forest Thinnings(270)
- Cellulosic Biomass - Separated Food Wastes(280)
- Cellulosic Biomass - Slash (290)
- Starch - Agricultural Residues (300)
- Starch - Annual Covercrops (310)
- Manure Digesters (320)
- Landfills(330)
- Sewage and Waste Treatment Plants (340)

1401?

Add

Report Co-products >>

* = Required Field

1.0.2-beta-3 2010-02-17 14:03:46

What information do I need to submit to EMTS? – Generation (cont...)

Generate RINs - Report Co-products

Report any co-products produced by your fuel generation process. If there are no co-products to report, leave all fields blank and click the 'Add to Transaction Bin' button.

Co-product

No co-products have been reported.

Report Co-products

* Co-product:

-- Select --
-- Select --
Wet Distillers Grains
Dry Distillers Grains

Add

* = Required Field

<< Report Feedstocks

Add to Transaction Bin >>

What information do I need to submit to EMTS? – Sell

Sell RINs

- Fuel Category (D Code) of the renewable fuel volume
- RIN year
- RIN Quantity
- Assignment (Assigned or Separated)
- Renewable fuel batch volume included in the trade (assigned RINs only)
- Trading Partner
- Transaction Date, i.e. Product Transfer Document (PTD) date
- Price per gallon, including RINs, or RIN price
- Reason for sell (e.g. standard trade, an approved remedial action)

What information do I need to submit to EMTS? – Sell (cont...)



Sell RINs - Identify RINs

Enter Fuel (D Code), RIN Year, Assignment, and Quantity of RINs. Also, enter Batch Volume if Assignment = Assigned. To cancel a trade that your organization has already initiated, go to the Pending Initiated Transactions on your Review Trades page and select 'Cancel Offer' for the appropriate transaction.

Identify RINs

* Fuel (D Code):	<input type="text" value="Renewable Fuel (D=6)"/>
* RIN Year:	<input type="text" value="2010"/>
* Assignment:	<input type="text" value="Assigned"/>
* Quantity of RINs:	<input type="text" value="10000"/>
Batch Volume:	<input type="text" value="10000"/> (Gallons)

Select Trading Partner >>

What information do I need to submit to EMTS? – Sell (cont...)

Sell RINs - Transaction Details and Documents

Enter the Transaction Date, Price Paid, Sell Reason, and any additional information. To cancel a trade that your organization has already initiated, go to the Pending Initiated Transactions on your Review Trades page and select 'Cancel Offer' for the appropriate transaction.

Sell Details

* Transaction Date:



(MM/DD/YYYY)

* Price Paid:

(U.S. Dollars, e.g., 1.25)

Per Gallon Per RIN

PTD Number:

* Sell Reason:

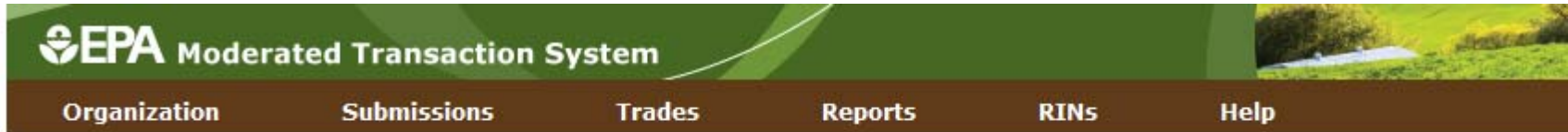
Additional Information:

What information do I need to submit to EMTS? – Buy

Buy RINs

- Fuel Category (D Code) of the renewable fuel volume
- RIN year
- RIN Quantity
- Assignment (Assigned or Separated)
- Renewable fuel batch volume included in the trade (assigned RINs only)
- Trading Partner
- Transaction Date, i.e. Product Transfer Document (PTD) date
- Price per gallon, including RINs, or RIN price
- Reason for sell (e.g. standard trade, an approved remedial action)

What information do I need to submit to EMTS? – Buy (cont...)



Accept Trade

Please review the selected transaction and provide any additional information about the trade.

You are accepting the following Sell pending trade:

10001 2010 Assigned Renewable Fuel RINs from
TEST PETROLEUM CORPORATION 1 (4999) submitted on 03/11/2010 8:56:41 AM EST
for \$1.25 per Gallon.

* Confirm the price per Gallon for this transaction:

What information do I need to submit to EMTS? – Separation

Separate RINs

- Fuel Category (D Code) of the renewable fuel volume
- RIN year
- RIN Quantity
- Renewable fuel batch volume included in the separation
- Reason for separation (e.g. blending to produce a transportation fuel, receipt as an obligated party, export of renewable fuel, etc)

What information do I need to submit to EMTS? – Separation (cont...)

Separate RINs - Identify RINs

Identify the RINs for separation by entering the required information below.

Identify RINs

* Fuel (D Code):

Renewable Fuel (D=6) ▼

* RIN Year:

2010

* RIN Quantity:

* Batch Volume:

(Gallons)

* Reason for Separation:

-- Select -- ▼

Additional Information:

- Select --
- Receipt of renewable fuel by obligated party (10)
- Blending to produce a transportation fuel (20)
- Designation of renewable fuel as transportation fuel (30)
- Export of Renewable Fuel (50)
- Use as Heating Oil or Jet Fuel (60)
- Use in a non-road engine or vehicle (70)
- Designation of Renewable Fuel as Heating Oil or Jet Fuel (80)

Document

What information do I need to submit to EMTS? – Retire

Retire RINs

- Fuel Category (D Code) of the renewable fuel volume
- RIN year
- RIN Quantity
- Renewable fuel batch volume (assigned RINs only)
- Reason for Retire (e.g. use for compliance, reported spill, contaminated or spoiled fuel)

What information do I need to submit to EMTS? – Retire (cont...)

Retire RINs - Identify RINs (Other)

Identify the RINs for retirement by entering the required information below.

* Fuel (D Code):

* RIN Year:

* Assignment:

* RIN Quantity:

Batch Volume:
(Gallons)

* Reason for Retire:

Additional Information:

- Select --
- Reported spill (10)
- Contaminated or spoiled fuel (20)
- Import volume correction (30)
- Renewable Fuel Used in a Boiler or an Ocean-Going Vessel (40)
- Invalid RIN (50)
- Volume error correction (60)
- Enforcement Obligation (70)

* = Required Field

Benefits of the EMTS Conversion Tool and Batch File Submissions

Parties may submit a batch XML file for all transactions to EMTS (Note: Transactions must be submitted within 5 business days)

Example:

1. A renewable fuel producer creates 10 generation transactions for one day.
2. The producer records the 10 generations in the ECT template.
3. At the end of the day, the producer converts the ECT template into an XML file.
4. The producer submits the XML file to EMTS directly on the Web Application.

Batch File Submission

The screenshot shows the EPA Moderated Transaction System (EMTS) web interface. The top navigation bar includes "Organization", "Submissions", and "Trades". The "Submit File" section contains instructions: "Select an XML file to submit for your organization. The file must include the E... validation for it to be submitted to the EMTS Node." Below this is an "Identify File" section with a text input field and a "Browse..." button. A Windows Explorer dialog box titled "Choose file" is open, showing the "Good_Files" folder. The file list includes various XML files such as "BuyTransaction4327_12-4-2009-11-16-53.xml" and "GenerateTransaction40998_12-14-2009-10-48-59.xml". A tooltip for the selected file shows: "Type: XML Document", "Date Modified: 12/4/2009 9:45 AM", and "Size: 2.60 KB". The "File name" field in the dialog is set to "GenerateTransaction40998_12-14-2009-10-48-59.xml" and "Files of type" is set to "All Files (*.*)".

MTS

EPA Moderated Transaction System

Organization Submissions Trades

Submit File

Select an XML file to submit for your organization. The file must include the E... validation for it to be submitted to the EMTS Node.

Identify File

* File: Browse...

Choose file

Look in: Good_Files

BuyTransaction4327_12-4-2009-11-16-53.xml
BuyTransaction4327_12-4-2009-11-18-9.xml
BuyTransaction4327_12-4-2009-11-19-46.xml
BuyTransaction40998_12-10-2009-15-54-52.xml
GenerateTransaction40998_1-26-2010-14-35-59.xml
GenerateTransaction40998_12-4-2009-9-45-54.xml
GenerateTransaction40998_12-7-2009-11-59-30.xml
GenerateTransaction40998_12-14-2009-10-48-59.xml
GenerateTransaction40998_12-22-2009-11-41-54.xml
RetireTransaction4327_12-4-2009-10-50-7.xml
RetireTransaction40998_12-10-2009-15-55-9.xml
SellTransaction40998_12-4-2009-10-35-48.xml
SellTransaction40998_12-4-2009-11-16-53.xml
SellTransaction40998_12-4-2009-11-18-9.xml
SellTransaction40998_12-10-2009-15-54-52.xml
SeparateTransaction40998_12-14-2009-10-48-59.xml

Type: XML Document
Date Modified: 12/4/2009 9:45 AM
Size: 2.60 KB

File name: GenerateTransaction40998_12-14-2009-10-48-59.xml
Files of type: All Files (*.*)

Open
Cancel

Submit

How do I sign up for EMTS?

First, read the EMTS Getting Started Guide and EMTS User's Guide

- EMTS testing is available for all users who are currently registered as submitters with our CDX Fuels Programs Registration Application (OTAQReg).
- All other participants in RFS and EMTS must first create a free CDX account and complete a user registration in the Fuels Programs Registration Application (OTAQReg).
- The EMTS web application can be accessed via a user's MyCDX page after their registration has been approved.
- For information on how to test EMTS prior to July 1, 2010, please visit the EMTS webpage at <http://www.epa.gov/otaq/fuels/renewablefuels/epamts.htm>

What else do I need to know?

- All transactions (generate, separate, sell, buy, and retire) must be submitted to EMTS within 5 business days of the transaction date (i.e. PTD date).
- EMTS will provide reports for review and certification by a company's Responsible Corporate Officer (RCO) on a quarterly basis for all parties who owned RINs in a quarter.
- All parties with RFS2 RIN-related responsibilities must use EMTS starting July 1, 2010.
- All RFS1 RINs will continue to be traded as they currently do under RFS1 rules. EMTS will not offer an import mechanism for RFS1 RINs

Overview

- All parties with RFS2 RIN-related responsibilities must use EMTS starting July 1, 2010.
- All RFS1 RINs will continue to be traded as they currently do under RFS1 rules. EMTS will not offer an import mechanism for RFS1 RINs
- Testing is available. Please start testing now!



Questions?



- For more information:
 - EPA EMTS webpage contains tutorials, webinars, and recorded presentations.
 - <http://www.epa.gov/otaq/fuels/renewablefuels/epamts.htm>
 - For technical support, please contact the EMTS Technical Support Line:
 - emts-testing@pqa.com
 - 1-800-385-6164
 - For regulatory/registration support, please contact the EPA Fuels Programs Support Line:
 - EPAFuelsPrograms@epa.gov
 - 1-202-343-9755